## Projections onto Surface Pressure Principal Components (PCs) a2) PC2 (frac: 0.023) a1) PC1 (frac: 0.030) a3) PC3 (frac: 0.021) Lat (deg N) 50 50 50 100 200 300 100 200 300 100 200 300 0 0 0 Lon (deg E) Lon (deg E) Lon (deg E) -1.0-0.6-0.2 0.2 0.6 1.0 -1.0-0.6-0.2 0.2 0.6 1.0 -1.0-0.6-0.2 0.2 0.6 1.0 b1) PC1 VS PC2 (09/02) b2) PC2 VS PC3 (09/02) b3) PC1 VS PC3 (09/02) 20 PC3 Coef. (kPa) PC3 Coef. (kPa) 10 10 10 0 0 -10 -10 -10**-**20 20 20 -20 20 0 -100 10 PC1 Coef. (kPa) PC2 Coef. (kPa) PC1 Coef. (kPa) c1) PC1 VS PC2 (11/02) c2) PC2 VS PC3 (11/02) c3) PC1 VS PC3 (11/02) 20 PC3 Coef. (kPa) PC3 Coef. (kPa) 10 10 10 0 0 -10-10-10-200 20 -100 10 20 -20 0 20 PC1 Coef. (kPa) PC2 Coef. (kPa) PC1 Coef. (kPa) d1) PC1 VS PC2 (13/02) d2) PC2 VS PC3 (13/02) d3) PC1 VS PC3 (13/02) 20 PC3 Coef. (kPa) PC3 Coef. (kPa) 10 10 10 0 0 -10-10-10-200 20 40 0 20 -200 20 40

PC2 Coef. (kPa)

PC1 Coef. (kPa)

PC2 Coef. (kPa)

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PC2 Coef. (kPa)

PC1 Coef. (kPa)